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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,072	01/18/2006	Friedrich Boecking	R.305590	3667
2119 RONALD E. G	7590 12/03/200 REIGG	EXAMINER		
	EIGG P.L.L.C.	FRISTOE JR, JOHN K		
	1423 POWHATAN STREET, UNIT ONE ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			3753	
			MAIL DATE	DELIVERY MODE
			12/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/565,072	BOECKING, FRIEDRICH			
Office Action Summary	Examiner	Art Unit			
	JOHN K. FRISTOE JR	3753			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 18 Au This action is FINAL . 2b) ☐ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 13-32 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 13-32 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration.				
10) ☐ The drawing(s) filed on 18 January 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 13-32 have been considered but are moot in view of the new ground(s) of rejection. Since the new grounds of rejection were necessitated by Applicant's amendment, the instant Office action

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 13-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 13 initially requires "an additional booster piston" in line 3 and then requires "one end of one of the additional booster pistons". The second reference appears to require multiple pistons which renders the claim indefinite.
- 4. Claims 21, 24, and 27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear if the "additional piston" recited in claim 21, line 3, is the "additional booster piston" recited in claim 13.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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6. Claims 13-19 and 21-32 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 10162045 A1 (Schuerz). Schuerz discloses a hydraulic coupler for a fuel injector comprising a first booster piston (17) having the capacity to be coupled to a piezoelectric actuator (col. 7, lines 23-35), an additional booster piston (7) having the capacity to couple to a nozzle needle (col. 7, lines 30-31), a lifetime filling of hydraulic fluid (col. 7, lines 12-13), one end of the additional booster piston (7) being guided in one end of the first booster piston (17), a booster chamber (46), an additional enclosure for hydraulic fluid (13, 22), a spring sealing element (22, 25, 45), a connecting conduit (44), a throttle (top hole of element 44 in figure 1), a through hole (hole in the bottom of element 44 in figure 1), a stationary housing part (4, 14), a spring element (31, 42), and a convoluted bellows (22, 25, 45).

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Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over DE 10162045 A1 (Schuerz) in view of U.S. Pat. No. 6,427,968 (Stoecklein). Schuerz discloses a hydraulic coupler for a fuel injector comprising a first booster piston (17) having the capacity to be coupled to a piezoelectric actuator (col. 7, lines 23-35), an additional booster piston (7) having the capacity to couple to a nozzle needle (col. 7, lines 30-31), a lifetime filling of hydraulic fluid (col. 7, lines 12-13), one end of the additional booster piston (7) being guided in one end of the first booster piston (17), a booster chamber (46), an additional enclosure for hydraulic fluid (13, 22), a spring sealing element (22, 25, 45), a connecting conduit (44), a throttle (top hole of element 44 in

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figure 1), a through hole (hole in the bottom of element 44 in figure 1), a stationary housing part (4, 14), a spring element (31, 42), and a convoluted bellows (22, 25, 45) but lacks a sealing element in the throttle. Stoecklein teaches a valve assembly comprising a throttle (to the left and right of element 22 in figure 1) having a sealing element (22). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the hydraulic coupler for a fuel injector of Schuerz by adding a sealing element to the throttle as taught by Stoecklein in order to control the flow of fluid in the throttle more precisely.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John K. Fristoe Jr. whose telephone number is (571) 272-4926. The examiner can normally be reached on Monday-Friday, 7: 00 a.m-4: 30 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Huson can be reached on (571) 272-4887. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/John K. Fristoe Jr./ John K. Fristoe Jr. Primary Examiner Art Unit 3753

JKF